PRINT OF DRAWINGS
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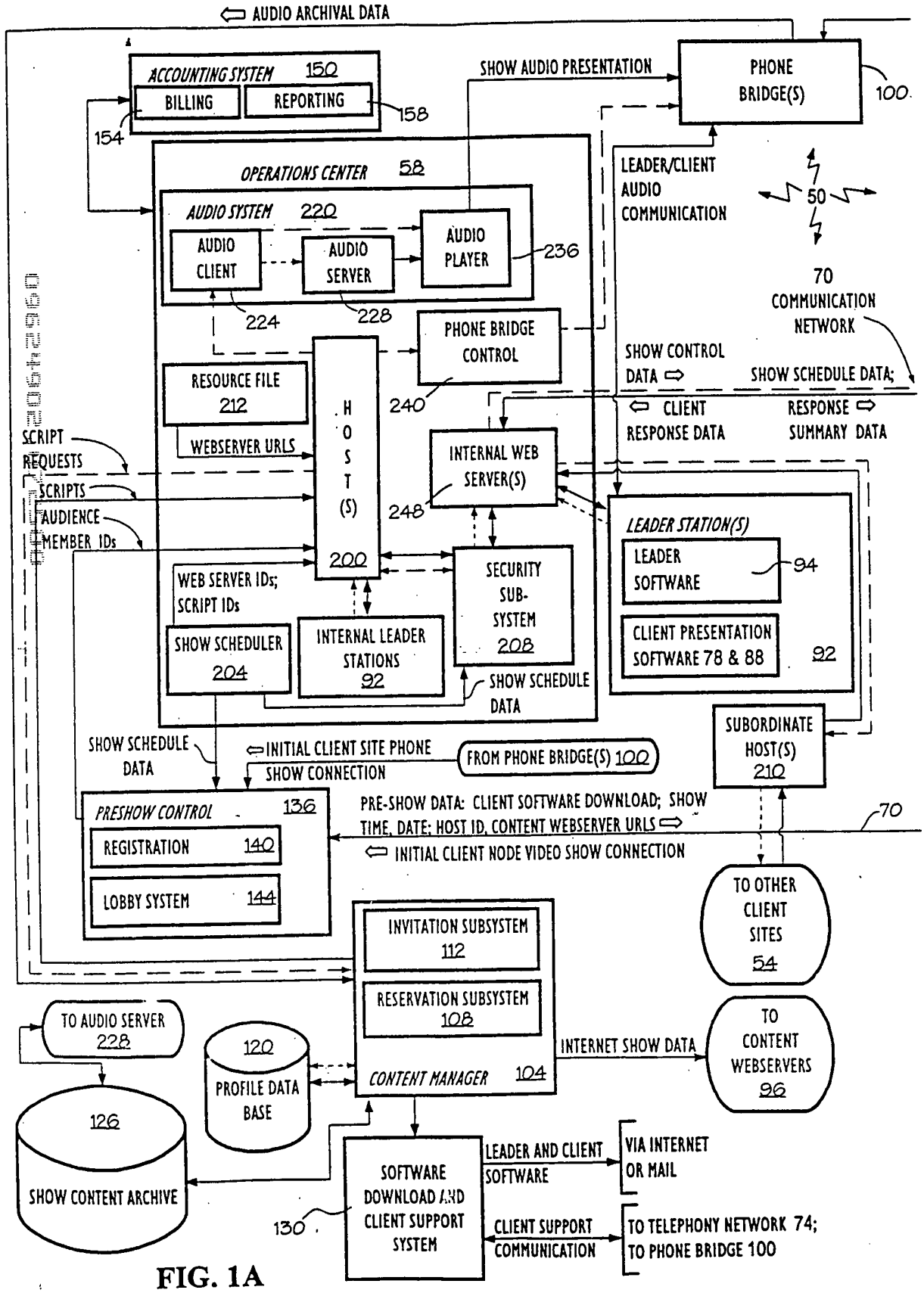

FIG. 1A

PRINT OF DRAWINGS
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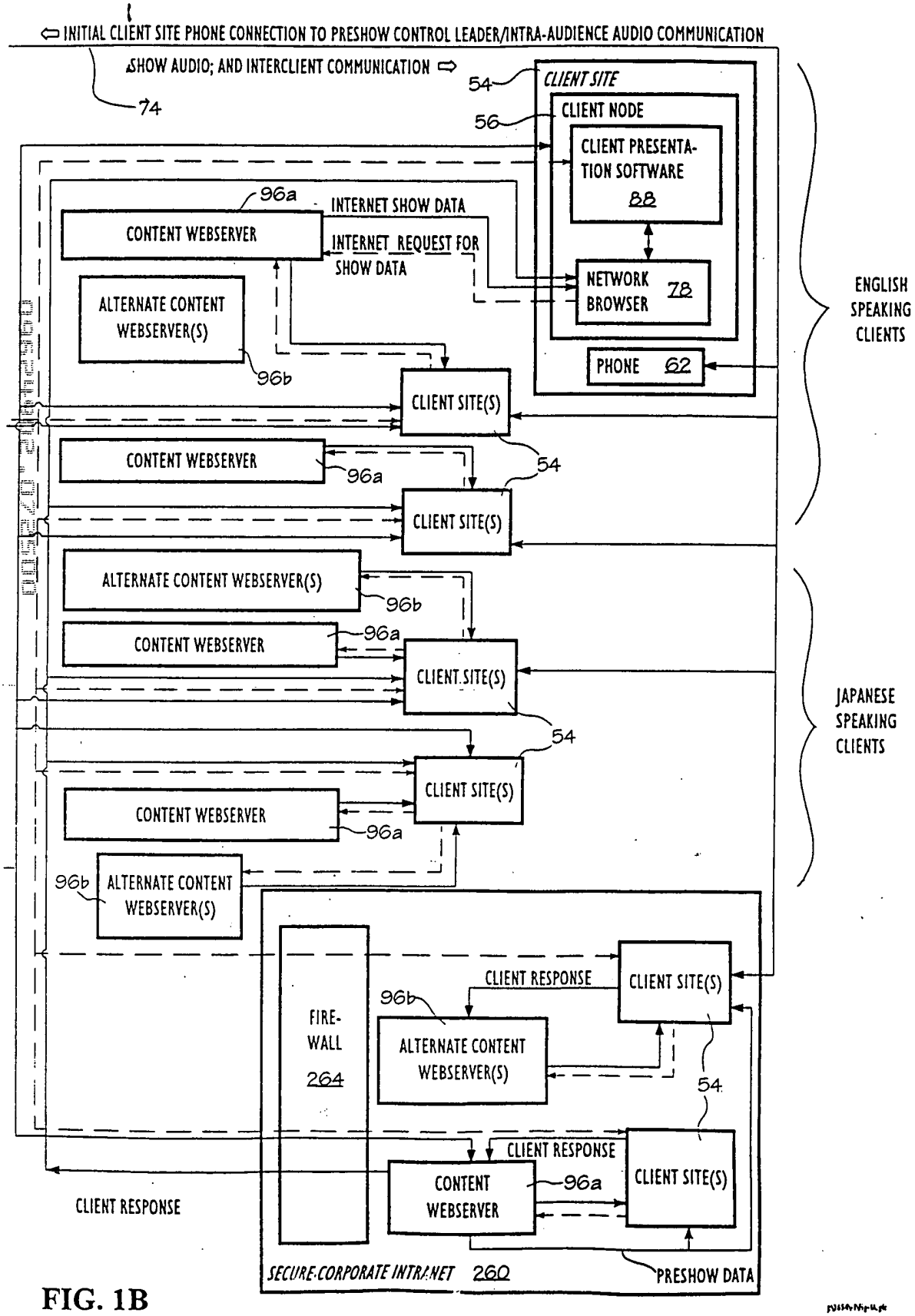
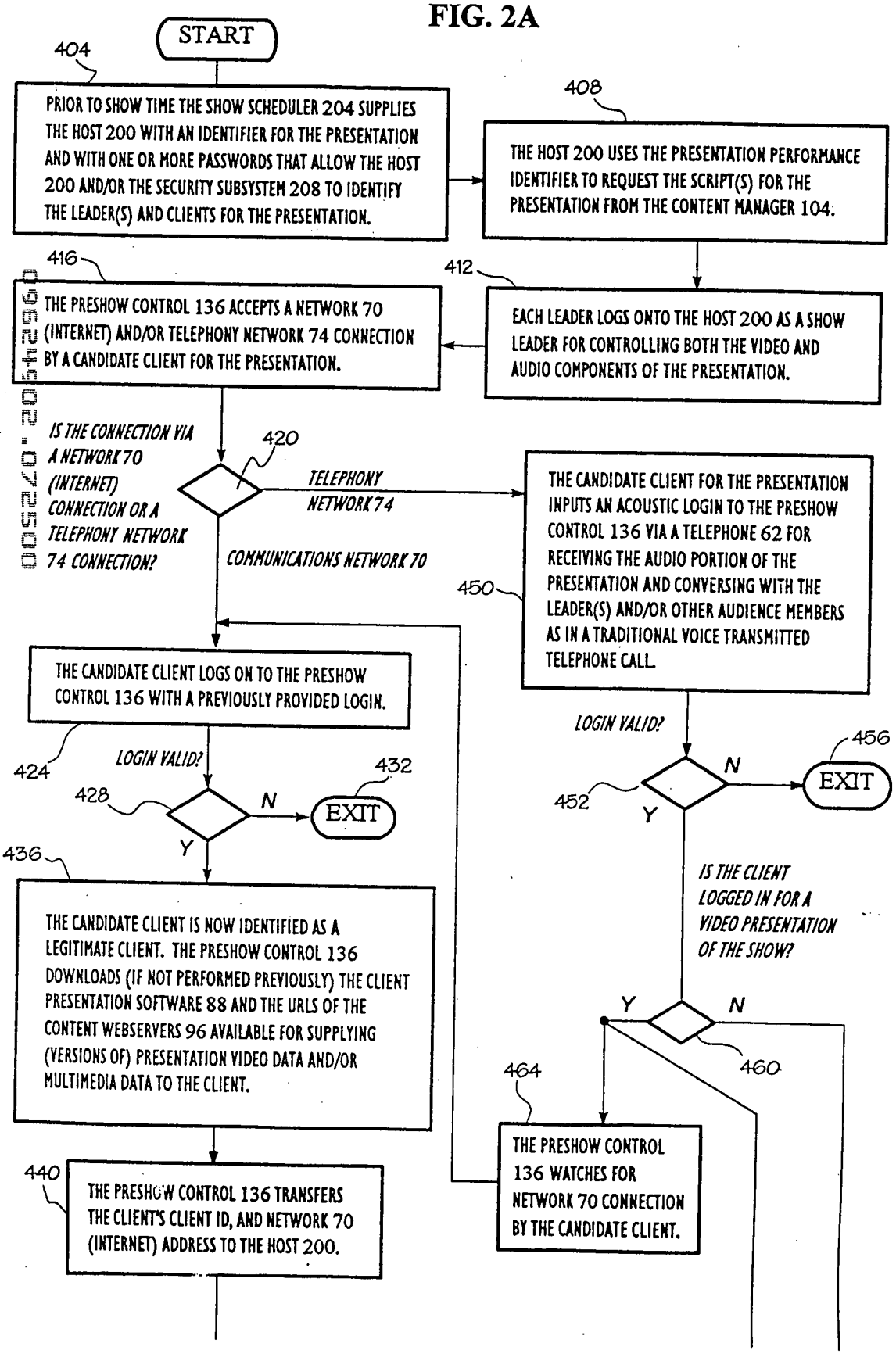


FIG. 1B

FIG. 2A


START
404
PRIOR TO SHOW TIME THE SHOW SCHEDULER 204 SUPPLIES THE HOST 200 WITH AN IDENTIFIER FOR THE PRESENTATION AND WITH ONE OR MORE PASSWORDS THAT ALLOW THE HOST 200 AND/OR THE SECURITY SUBSYSTEM 208 TO IDENTIFY THE LEADER(S) AND CLIENTS FOR THE PRESENTATION.
408
THE HOST 200 USES THE PRESENTATION PERFORMANCE IDENTIFIER TO REQUEST THE SCRIPT(S) FOR THE PRESENTATION FROM THE CONTENT MANAGER 104.
412
EACH LEADER LOGS ONTO THE HOST 200 AS A SHOW LEADER FOR CONTROLLING BOTH THE VIDEO AND AUDIO COMPONENTS OF THE PRESENTATION.
416
THE PRESHOW CONTROL 136 ACCEPTS A NETWORK 70 (INTERNET) AND/OR TELEPHONY NETWORK 74 CONNECTION BY A CANDIDATE CLIENT FOR THE PRESENTATION.
09524502.072500
IS THE CONNECTION VIA A NETWORK 70 (INTERNET) CONNECTION OR A TELEPHONY NETWORK 74 CONNECTION?
420
TELEPHONY NETWORK 74
COMMUNICATIONS NETWORK 70
450
THE CANDIDATE CLIENT FOR THE PRESENTATION INPUTS AN ACOUSTIC LOGIN TO THE PRESHOW CONTROL 136 VIA A TELEPHONE 62 FOR RECEIVING THE AUDIO PORTION OF THE PRESENTATION AND CONVERSING WITH THE LEADER(S) AND/OR OTHER AUDIENCE MEMBERS AS IN A TRADITIONAL VOICE TRANSMITTED TELEPHONE CALL.
THE CANDIDATE CLIENT LOGS ON TO THE PRESHOW CONTROL 136 WITH A PREVIOUSLY PROVIDED LOGIN.
424
LOGIN VALID?
428
N
EXIT
432
Y
LOGIN VALID?
452
N
EXIT
456
Y
436
THE CANDIDATE CLIENT IS NOW IDENTIFIED AS A LEGITIMATE CLIENT. THE PRESHOW CONTROL 136 DOWNLOADS (IF NOT PERFORMED PREVIOUSLY) THE CLIENT PRESENTATION SOFTWARE 88 AND THE URLS OF THE CONTENT WEBSERVERS 96 AVAILABLE FOR SUPPLYING (VERSIONS OF) PRESENTATION VIDEO DATA AND/OR MULTIMEDIA DATA TO THE CLIENT.
IS THE CLIENT LOGGED IN FOR A VIDEO PRESENTATION OF THE SHOW?
Y
N
460
464
THE PRESHOW CONTROL 136 WATCHES FOR NETWORK 70 CONNECTION BY THE CANDIDATE CLIENT.
440
THE PRESHOW CONTROL 136 TRANSFERS THE CLIENT'S CLIENT ID, AND NETWORK 70 (INTERNET) ADDRESS TO THE HOST 200.

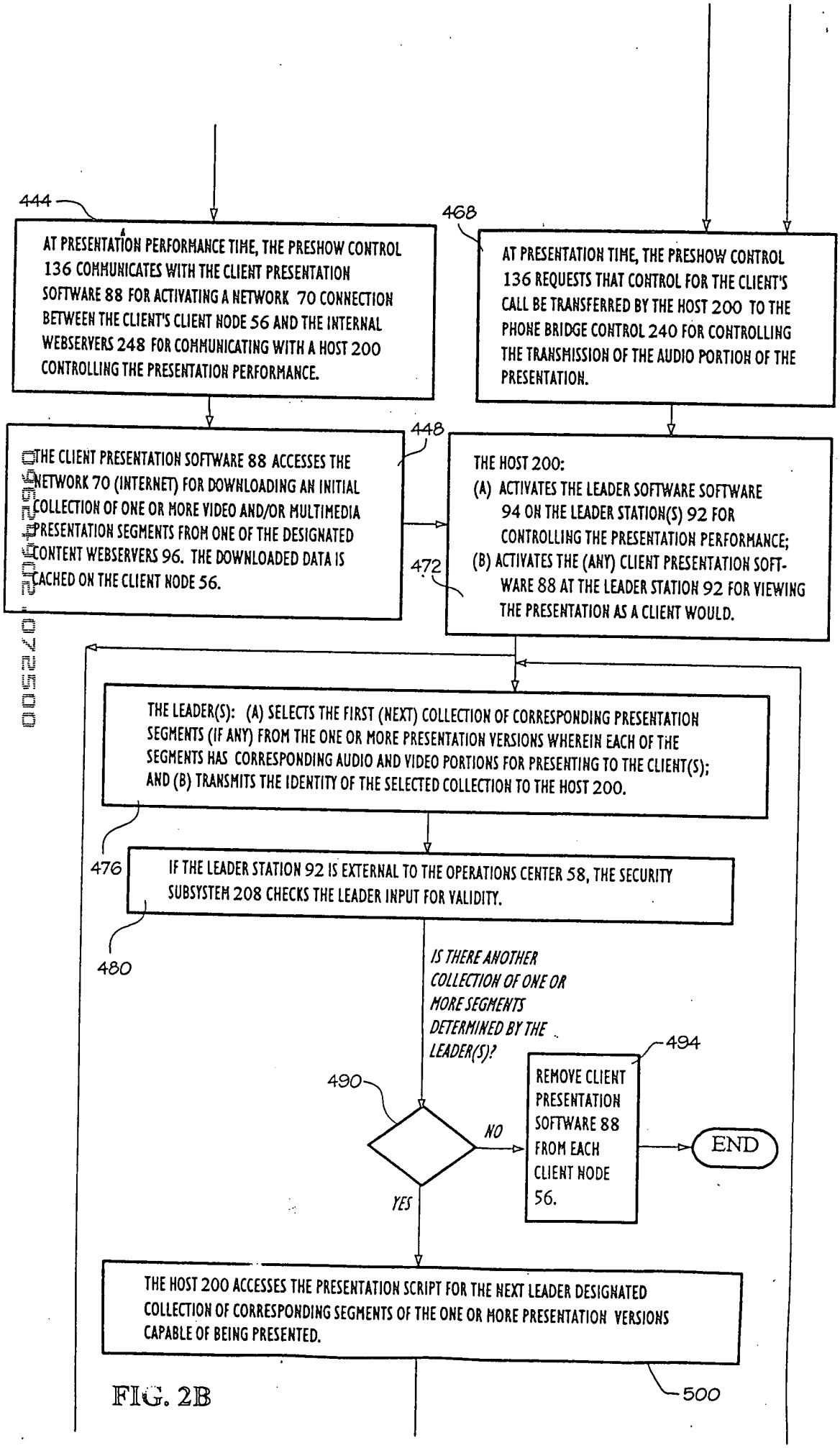

444
AT PRESENTATION PERFORMANCE TIME, THE PRESHOW CONTROL 136 COMMUNICATES WITH THE CLIENT PRESENTATION SOFTWARE 88 FOR ACTIVATING A NETWORK 70 CONNECTION BETWEEN THE CLIENT'S CLIENT NODE 56 AND THE INTERNAL WEBSERVERS 248 FOR COMMUNICATING WITH A HOST 200 CONTROLLING THE PRESENTATION PERFORMANCE.
468
AT PRESENTATION TIME, THE PRESHOW CONTROL 136 REQUESTS THAT CONTROL FOR THE CLIENT'S CALL BE TRANSFERRED BY THE HOST 200 TO THE PHONE BRIDGE CONTROL 240 FOR CONTROLLING THE TRANSMISSION OF THE AUDIO PORTION OF THE PRESENTATION.
448
THE CLIENT PRESENTATION SOFTWARE 88 ACCESSES THE NETWORK 70 (INTERNET) FOR DOWNLOADING AN INITIAL COLLECTION OF ONE OR MORE VIDEO AND/OR MULTIMEDIA PRESENTATION SEGMENTS FROM ONE OF THE DESIGNATED CONTENT WEBSERVERS 96. THE DOWNLOADED DATA IS CACHED ON THE CLIENT NODE 56.
THE HOST 200:
(A) ACTIVATES THE LEADER SOFTWARE SOFTWARE 94 ON THE LEADER STATION(S) 92 FOR CONTROLLING THE PRESENTATION PERFORMANCE;
(B) ACTIVATES THE (ANY) CLIENT PRESENTATION SOFTWARE 88 AT THE LEADER STATION 92 FOR VIEWING THE PRESENTATION AS A CLIENT WOULD.
472
THE LEADER(S): (A) SELECTS THE FIRST (NEXT) COLLECTION OF CORRESPONDING PRESENTATION SEGMENTS (IF ANY) FROM THE ONE OR MORE PRESENTATION VERSIONS WHEREIN EACH OF THE SEGMENTS HAS CORRESPONDING AUDIO AND VIDEO PORTIONS FOR PRESENTING TO THE CLIENT(S); AND (B) TRANSMITS THE IDENTITY OF THE SELECTED COLLECTION TO THE HOST 200.
476
IF THE LEADER STATION 92 IS EXTERNAL TO THE OPERATIONS CENTER 58, THE SECURITY SUBSYSTEM 208 CHECKS THE LEADER INPUT FOR VALIDITY.
480
IS THERE ANOTHER COLLECTION OF ONE OR MORE SEGMENTS DETERMINED BY THE LEADER(S)?
490
NO
494
REMOVE CLIENT PRESENTATION SOFTWARE 88 FROM EACH CLIENT NODE 56.
END
YES
THE HOST 200 ACCESSES THE PRESENTATION SCRIPT FOR THE NEXT LEADER DESIGNATED COLLECTION OF CORRESPONDING SEGMENTS OF THE ONE OR MORE PRESENTATION VERSIONS CAPABLE OF BEING PRESENTED.
500

FIG. 2B

PRINT OF DRAWINGS
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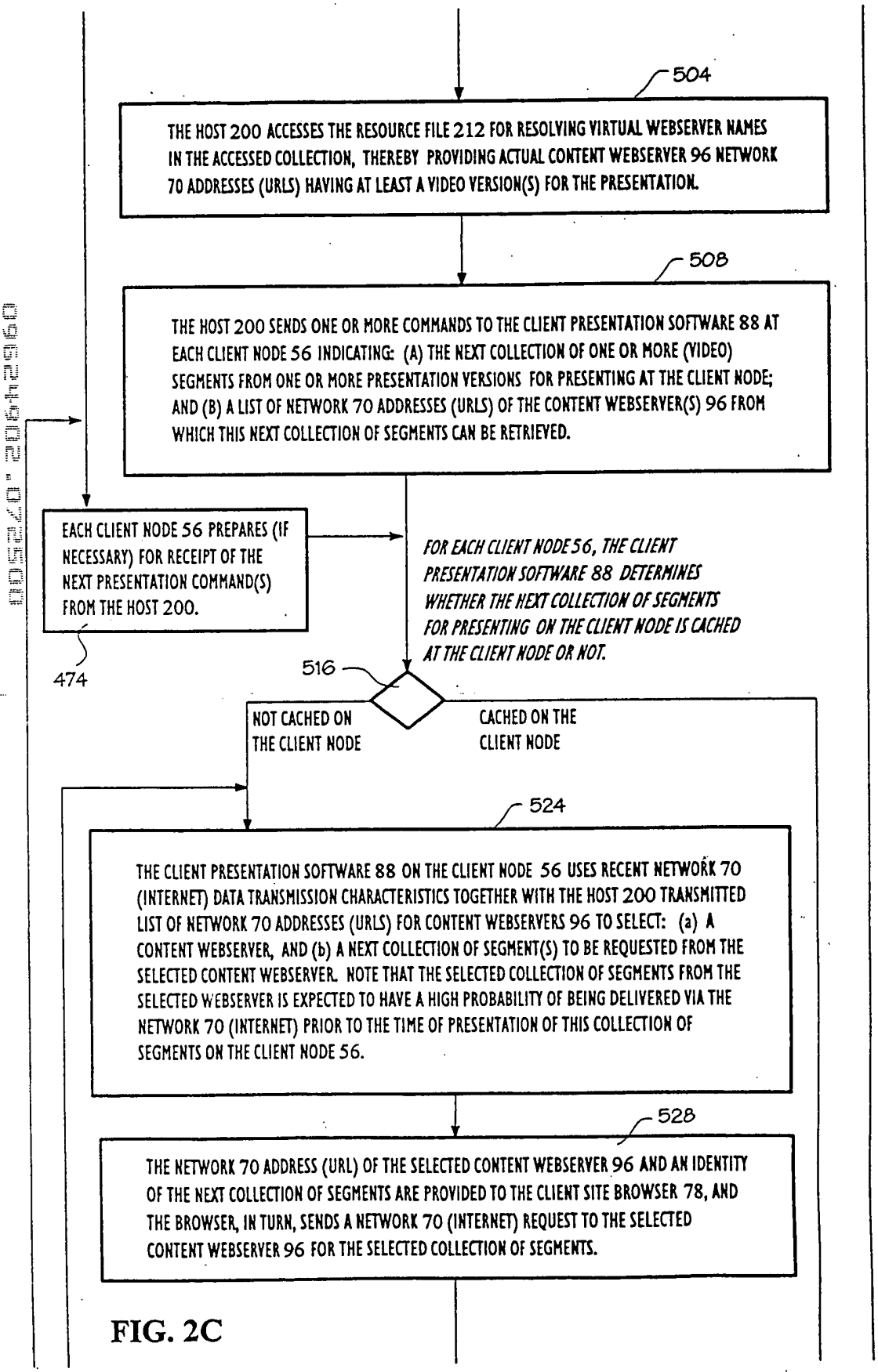


FIG. 2C

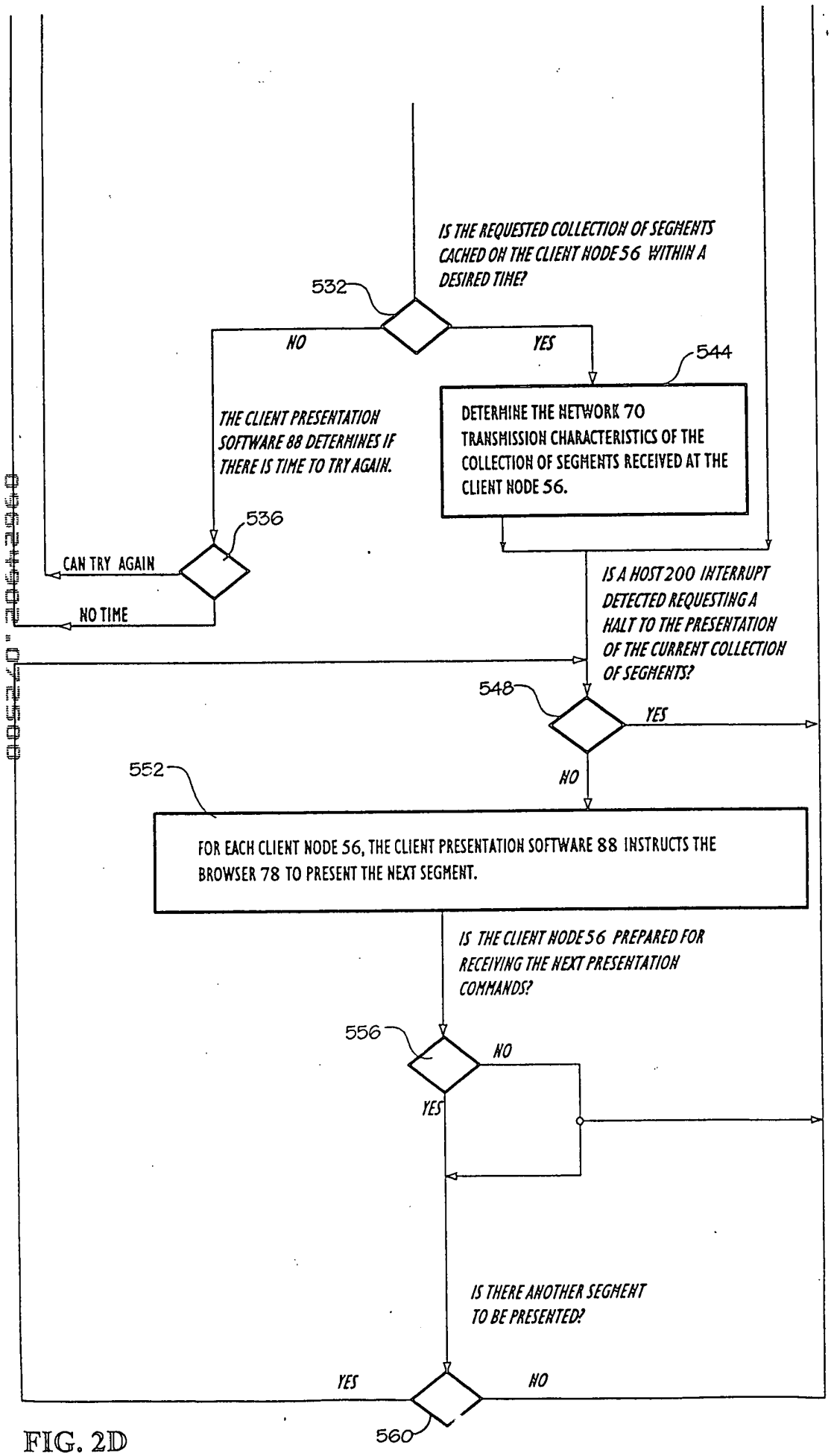

IS THE REQUESTED COLLECTION OF SEGMENTS CACHED ON THE CLIENT NODE 56 WITHIN A DESIRED TIME?
532
NO
YES
544
DETERMINE THE NETWORK 70 TRANSMISSION CHARACTERISTICS OF THE COLLECTION OF SEGMENTS RECEIVED AT THE CLIENT NODE 56.
THE CLIENT PRESENTATION SOFTWARE 88 DETERMINES IF THERE IS TIME TO TRY AGAIN.
536
CAN TRY AGAIN
NO TIME
IS A HOST 200 INTERRUPT DETECTED REQUESTING A HALT TO THE PRESENTATION OF THE CURRENT COLLECTION OF SEGMENTS?
548
YES
NO
552
FOR EACH CLIENT NODE 56, THE CLIENT PRESENTATION SOFTWARE 88 INSTRUCTS THE BROWSER 78 TO PRESENT THE NEXT SEGMENT.
IS THE CLIENT NODE 56 PREPARED FOR RECEIVING THE NEXT PRESENTATION COMMANDS?
556
NO
YES
IS THERE ANOTHER SEGMENT TO BE PRESENTED?
YES
NO
560

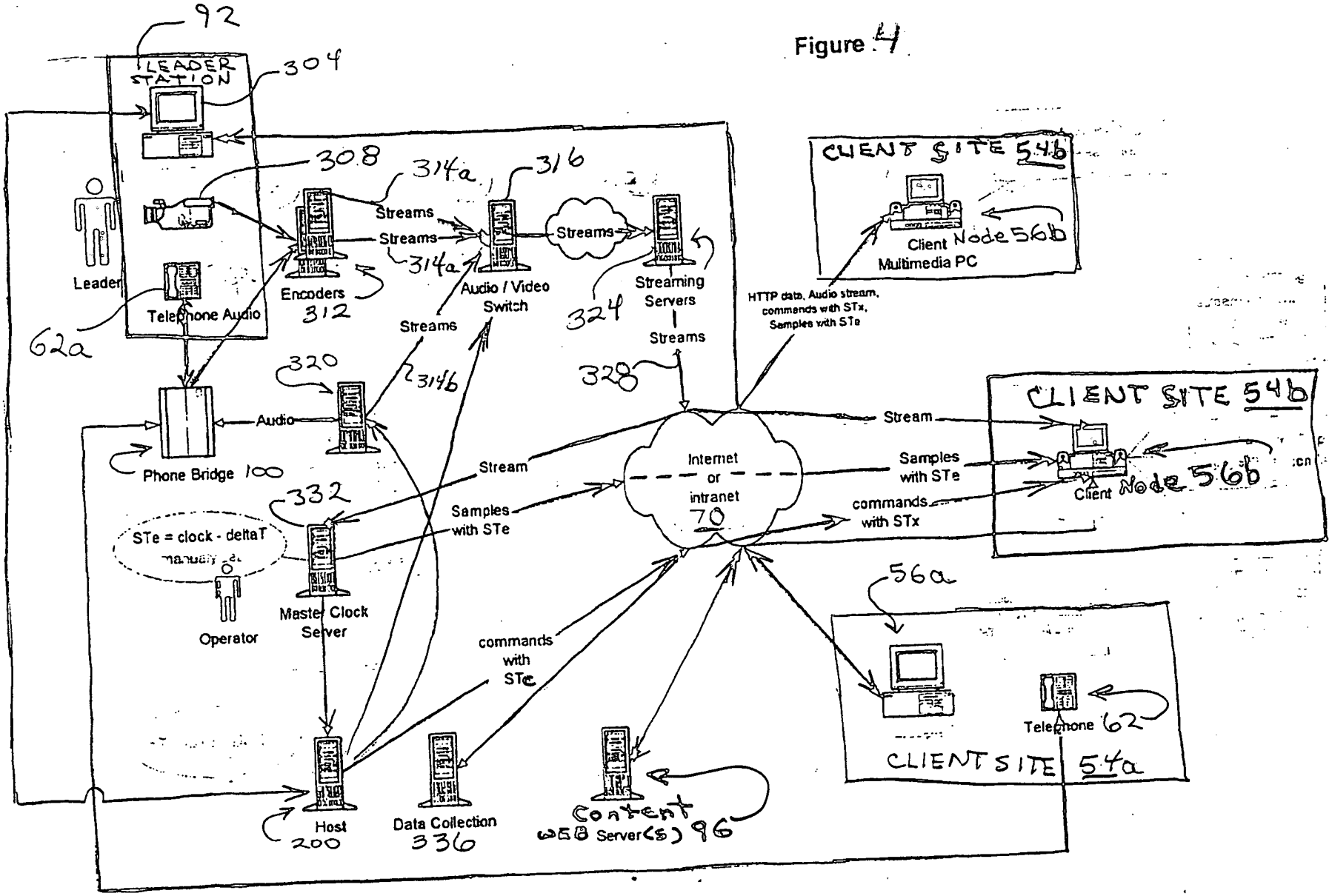
FIG. 2D

600

	612 Script Level	616 Item #	620 Virtual Time hr:min:sec	624 Action	632 Resource Type	636 Resource Location	640 Resource Name
608a	1	1	0.00	client_Load	FTP_File	Server Name (SN)	Path + File *
608b	2				FTP_Dir	Server Name	Path *
608c	3			client_Free	FTP_File	"TWFTP"	File
608d	12			client_Display	HTML_File	SN | TWFTP | CD | LOCAL	Path + File | File *
608e	13	2	1:01:00		MC_Question	SN | TWFTP | CD | LOCAL	Path + File | File *
608f	23				MC_Answer	SN | TWFTP | CD | LOCAL	Path + File | File *
608g	123				Info_Form	SN | TWFTP | CD | LOCAL	Path + File | File *
608h	1,2,3			client_Play	Audio_RaFile	Server Name	Path + File
608i	1,2,3				Audio_RaLive	Server Name	Encoder Task
608j	1,2,3			leader_Hold	---------	---------	----------
608k	1,2,3		0.00	time_Set_At	"THIS LINE"	----------	----------
608l	1,2,3			time_HoldTo	HTML_File	"END" | "GOT"	----------
608m	1,2,3				Audio_RaFile	"END"	----------
608n	1,2,3			child_Script	TWscript	"this"	Path + File
608o	1,2,3			End_Start	---------	----------	----------
608p	123	999	~~9:59:59.99~~	END	---------	----------	----------
608q	END						

Fig. 3

Figure 4


92
LEADER STATION
304
308
314a
316
Streams
Streams
Streams
314a
Leader
Telephone Audio
62a
Encoders 312
Audio / Video Switch
324
Streaming Servers
Streams
Streams
328
320
314b
Audio
Phone Bridge 100
CLIENT SITE 54b
Client Node 56b
Multimedia PC
HTTP data, Audio stream, commands with STx, Samples with STe
Stream
Samples with STe
commands with STx
Internet or intranet 70
Stream
Samples with STe
332
STe = clock - deltaT
Operator
Master Clock Server
commands with STe
56a
Telephone 62
CLIENT SITE 54a
Host 200
Data Collection 336
Content Web Server(s) 96

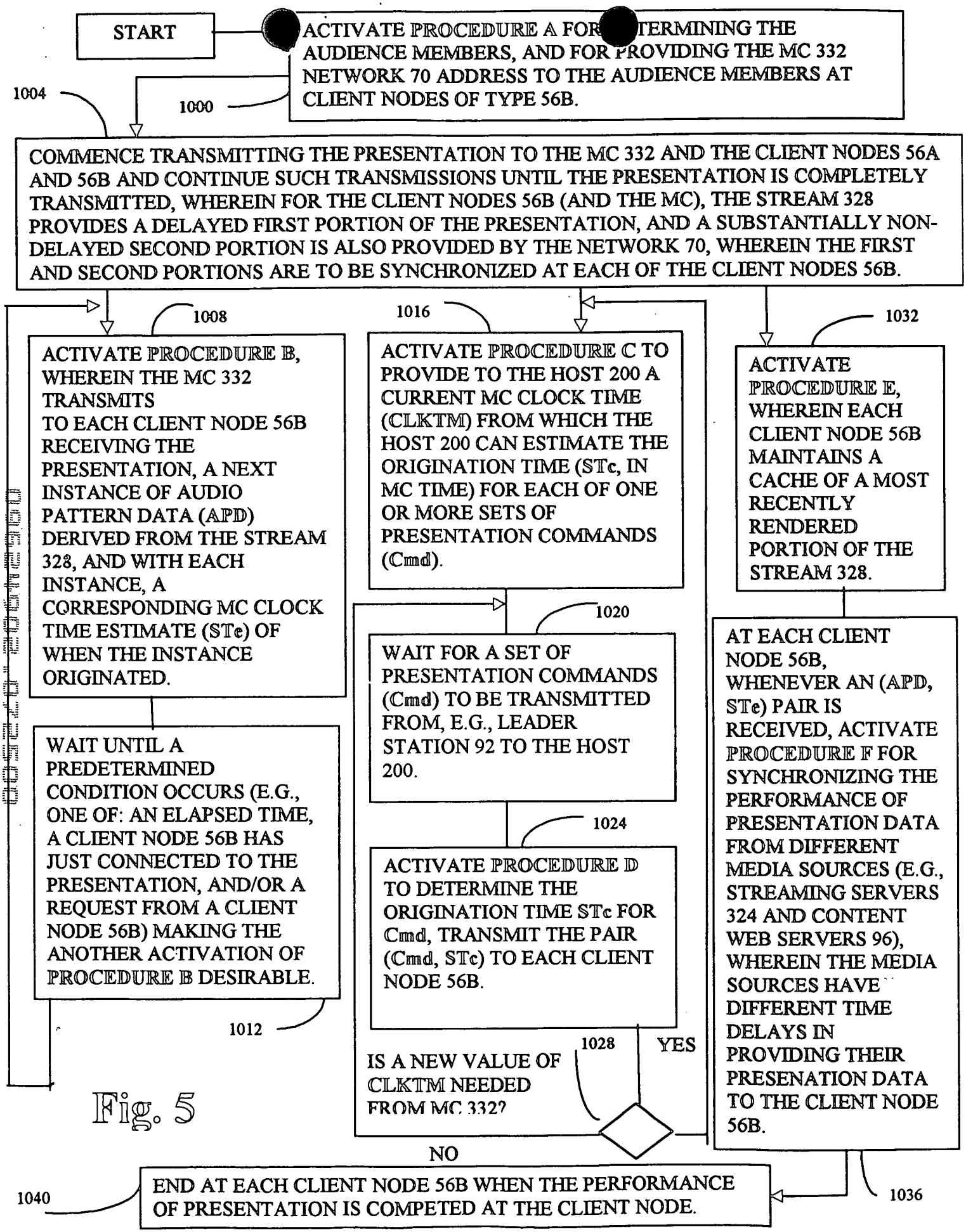

START
ACTIVATE PROCEDURE A FOR DETERMINING THE AUDIENCE MEMBERS, AND FOR PROVIDING THE MC 332 NETWORK 70 ADDRESS TO THE AUDIENCE MEMBERS AT CLIENT NODES OF TYPE 56B.
1000
1004
COMMENCE TRANSMITTING THE PRESENTATION TO THE MC 332 AND THE CLIENT NODES 56A AND 56B AND CONTINUE SUCH TRANSMISSIONS UNTIL THE PRESENTATION IS COMPLETELY TRANSMITTED, WHEREIN FOR THE CLIENT NODES 56B (AND THE MC), THE STREAM 328 PROVIDES A DELAYED FIRST PORTION OF THE PRESENTATION, AND A SUBSTANTIALLY NON-DELAYED SECOND PORTION IS ALSO PROVIDED BY THE NETWORK 70, WHEREIN THE FIRST AND SECOND PORTIONS ARE TO BE SYNCHRONIZED AT EACH OF THE CLIENT NODES 56B.
1008
ACTIVATE PROCEDURE B, WHEREIN THE MC 332 TRANSMITS TO EACH CLIENT NODE 56B RECEIVING THE PRESENTATION, A NEXT INSTANCE OF AUDIO PATTERN DATA (APD) DERIVED FROM THE STREAM 328, AND WITH EACH INSTANCE, A CORRESPONDING MC CLOCK TIME ESTIMATE (STe) OF WHEN THE INSTANCE ORIGINATED.
WAIT UNTIL A PREDETERMINED CONDITION OCCURS (E.G., ONE OF: AN ELAPSED TIME, A CLIENT NODE 56B HAS JUST CONNECTED TO THE PRESENTATION, AND/OR A REQUEST FROM A CLIENT NODE 56B) MAKING THE ANOTHER ACTIVATION OF PROCEDURE B DESIRABLE.
1012
1016
ACTIVATE PROCEDURE C TO PROVIDE TO THE HOST 200 A CURRENT MC CLOCK TIME (CLKTM) FROM WHICH THE HOST 200 CAN ESTIMATE THE ORIGINATION TIME (STc, IN MC TIME) FOR EACH OF ONE OR MORE SETS OF PRESENTATION COMMANDS (Cmd).
1020
WAIT FOR A SET OF PRESENTATION COMMANDS (Cmd) TO BE TRANSMITTED FROM, E.G., LEADER STATION 92 TO THE HOST 200.
1024
ACTIVATE PROCEDURE D TO DETERMINE THE ORIGINATION TIME STc FOR Cmd, TRANSMIT THE PAIR (Cmd, STc) TO EACH CLIENT NODE 56B.
1028
IS A NEW VALUE OF CLKTM NEEDED FROM MC 332?
YES
NO
1032
ACTIVATE PROCEDURE E, WHEREIN EACH CLIENT NODE 56B MAINTAINS A CACHE OF A MOST RECENTLY RENDERED PORTION OF THE STREAM 328.
AT EACH CLIENT NODE 56B, WHENEVER AN (APD, STe) PAIR IS RECEIVED, ACTIVATE PROCEDURE F FOR SYNCHRONIZING THE PERFORMANCE OF PRESENTATION DATA FROM DIFFERENT MEDIA SOURCES (E.G., STREAMING SERVERS 324 AND CONTENT WEB SERVERS 96), WHEREIN THE MEDIA SOURCES HAVE DIFFERENT TIME DELAYS IN PROVIDING THEIR PRESENATION DATA TO THE CLIENT NODE 56B.
1036
1040
END AT EACH CLIENT NODE 56B WHEN THE PERFORMANCE OF PRESENTATION IS COMPETED AT THE CLIENT NODE.

Fig. 5